

IN THE CLAIMS:

Please amend the indicated claims as follows:

1. (Currently Amended) A method for executing an algorithm for decrypting data, comprising:

loading into a memory ~~in consecutive order a plurality of keys~~ at least one decryption key respectively associated with ~~a plurality of data frames~~ a first data frame including encrypted data, wherein ~~[[each]]~~ said key is comprised of a plurality of key values; and

~~executing a decryption algorithm simultaneous with~~ reading out a decryption key for a second data frame, simultaneously with the step of loading of key values into the memory, wherein ~~[[said]]~~ the step of reading out the decryption key initiates a decryption operation ~~[[uses]]~~ using the key values loaded into memory to decrypt said ~~plurality of data frames~~ second data frame.

2. (Currently Amended) A method according to claim 1, said step of ~~[[executing]]~~ initiating the decryption algorithm-occurring operation occurs simultaneously with loading of key values associated with subsequent data frames ~~of the plurality of data frames~~.

3. (Currently Amended) A method for executing an algorithm for encrypting data, comprising:

loading into a memory ~~in consecutive order a plurality of keys~~ at least one encryption key respectively associated with ~~a plurality of data frames~~ a first data frame including unencrypted data, wherein each said key is comprised of a plurality of key values; and

~~executing an encryption algorithm simultaneous with~~ reading out an encryption key for a second data frame, simultaneously with the step of loading of key values into the memory, wherein ~~said decryption~~ the step of reading out the encryption key initiates an encryption operation ~~[[uses]]~~ using the key values loaded into memory to ~~decrypt said plurality of data frames~~ encrypt said second frame.

4. (Currently Amended) A method according to claim 3, said step of ~~[[executing]]~~ initiating the encryption algorithm occurring operation occurs simultaneously with loading of key values associated with subsequent data frames ~~of the plurality of data frames.~~

5. (Original) A method for executing an algorithm for decrypting data, comprising:

loading into a memory in consecutive order a plurality of keys respectively associated with a plurality of data frames including encrypted data, wherein each said key is comprised of a plurality of key values;

initializing a table for decryption with at least one of the plurality of key values associated with a first data frame of the plurality of data frames, wherein said initializing step occurs prior to loading of all of the plurality of key values associated with the first data frame, and simultaneous with loading of key values; and

executing an algorithm to decrypt the first data frame using the initialized table, said execution occurring simultaneous with loading of key values associated with subsequent data frames of the plurality of data frames.

6. (Original) A method according to claim 5, wherein said method further comprises:

initializing said table for decryption with at least one of the plurality of key values associated with a second data frame of the plurality of data frames, wherein said initializing step for the second data frame occurs simultaneous with loading of key values.

7. (Original) A method for executing an algorithm for encrypting data, comprising:

loading into a memory in consecutive order a plurality of keys respectively associated with a plurality of data frames including unencrypted data, wherein each said key is comprised of a plurality of key values;

initializing a table for encryption with at least one of the plurality of key values associated with a first data frame of the plurality of data frames, wherein said initializing step occurs prior to loading of all of the plurality of key values associated with the first data frame, and simultaneous with loading of key values; and

executing an algorithm to encrypt the first data frame using the initialized table, said execution occurring simultaneous with loading of key values associated with subsequent data frames of the plurality of data frames.

8. (Original) A method according to claim 7, wherein said method further comprises:

initializing said table for encryption with at least one of the plurality of key values associated with a second data frame of the plurality of data frames, wherein said initializing step for the second data frame occurs simultaneous with loading of key values.

9. (Currently Amended) A system for decrypting data, comprising:

means for storing ~~in consecutive order a plurality of keys~~ at least one decryption key respectively associated with ~~a plurality of data frames~~ a first data frame including encrypted data, wherein [[each]] said key is comprised of a plurality of key values; and

means for ~~executing a decryption algorithm simultaneous with~~ reading out a decryption key for a second data frame, simultaneously with the storing of key values into the means for storing, wherein [[said]] the means for reading out the decryption key includes means for initiating a decryption operation [[uses]] using the key values loaded into the means for storing to decrypt said ~~plurality of data frames~~ second data frame.

10. (Currently Amended) A system according to claim 9, wherein said means for [[executing]] initializing the decryption [[algorithm]] operation decrypts a data frame simultaneously with storing of key values associated with subsequent data frames of the plurality of data frames, in said means for storing.

11. (Currently Amended) A system for encrypting data, comprising:

means for storing ~~in consecutive order a plurality of keys~~ at least one encryption key respectively associated with ~~a plurality of data frames~~ a first data frame including unencrypted data, wherein each said key is comprised of a plurality of key values; and

means for ~~executing an encryption algorithm simultaneous with~~ reading out an encryption key for a second data frame, simultaneously with the storing of key values into the

means for storing, wherein ~~[[said decryption]]~~ the means for reading out the encryption key includes means for initiating an encryption operation ~~[[uses]]~~ using the key values loaded into the

means for storing to ~~decrypt said plurality of data frames~~ encrypt said second data frame.

12. (Currently Amended) A system according to claim 11, wherein said means for ~~executing the decryption algorithm~~ initializing the encryption operation encrypts a data frame simultaneously with storing of key values associated with subsequent data frames of the plurality of data frames, in said means for storing.

13. (Original) A system for executing an algorithm for decrypting data, comprising:

means for storing in consecutive order a plurality of keys respectively associated with a plurality of data frames including encrypted data, wherein each said key is comprised of a plurality of key values;

means for initializing a table for decryption with at least one of the plurality of key values associated with a first data frame of the plurality of data frames, wherein said means for

initializing commences initialization of the table prior to loading of all of the plurality of key values associated with the first data frame, and simultaneous with loading of key values; and

means for executing an algorithm to decrypt the first data frame using the initialized table, wherein said means for executing decrypts the first data frame simultaneous with storing of key values associated with subsequent data frames of the plurality of data frames.

14. (Original) A system according to claim 13, wherein said system further comprises:

means for initializing said table for decryption with at least one of the plurality of key values associated with a second data frame of the plurality of data frames, wherein said initialization of the second data frame occurs simultaneously with storing of key values.

15. (Original) A system for executing an algorithm for encrypting data, comprising:

means for storing in consecutive order a plurality of keys respectively associated with a plurality of data frames including unencrypted data, wherein each said key is comprised of a plurality of key values;

means for initializing a table for encryption with at least one of the plurality of key values associated with a first data frame of the plurality of data frames, wherein said initialization occurs prior to loading of all of the plurality of key values associated with the first data frame, and simultaneous with storing of key values; and

means for executing an algorithm to encrypt the first data frame using the initialized table, wherein said means for execution executes the algorithm simultaneously with storing of key values associated with subsequent data frames of the plurality of data frames.

16. (Original) A system according to claim 15, wherein said system further comprises:

means for initializing said table for encryption with at least one of the plurality of key values associated with a second data frame of the plurality of data frames, wherein said initialization for the second data frame occurs simultaneously with loading of key values.

17. (Currently Amended) A system for decrypting data, comprising:
a dual port memory for storing in consecutive order a plurality of keys respectively associated with a plurality of data frames including encrypted data, wherein each said key is comprised of a plurality of key values; and
a controller for executing a decryption algorithm simultaneous with storing of key values into the dual port memory, wherein said decryption algorithm uses key values loaded into the dual port memory to decrypt said plurality of data frames.

18. (Original) A system according to claim 17, wherein said controller decrypts a data frame simultaneously with storing of key values associated with subsequent data frames of the plurality of data frames, in said dual port memory.

19. (Currently Amended) A system for encrypting data, comprising:
a dual port memory for storing in consecutive order a plurality of keys
respectively associated with a plurality of data frames including encrypted data, wherein each
said key is comprised of a plurality of key values; and
a controller for executing an encryption algorithm simultaneous with storing of
key values into the dual port memory, wherein said encryption [[operation]] algorithm uses key
values loaded into the dual port memory to encrypt said plurality of data frames.

20. (Original) A system according to claim 19, wherein said controller
encrypts a data frame simultaneously with storing of key values associated with subsequent data
frames of the plurality of data frames, in said dual port memory.

21. (Original) A system for executing an algorithm for decrypting data,
comprising:
a dual port memory for storing in consecutive order a plurality of keys
respectively associated with a plurality of data frames including encrypted data, wherein each
said key is comprised of a plurality of key values; and

a controller for:
(a) initializing a table for decryption with at least one of the plurality of
key values associated with a first data frame of the plurality of data frames, wherein said
controller commences initialization of the table prior to loading of all of the plurality of

key values associated with the first data frame, and simultaneous with loading of key values, and

(b) executing an algorithm to decrypt the first data frame using the initialized table, wherein said controller decrypts the first data frame simultaneous with storing of key values associated with subsequent data frames of the plurality of data frames.

22. (Original) A system according to claim 21, wherein said controller initializes said table for decryption with at least one of the plurality of key values associated with a second data frame of the plurality of data frames, wherein said initialization of the second data frame occurs simultaneously with storing of key values.

23. (Original) A system for executing an algorithm for encrypting data, comprising:

a dual port memory for storing in consecutive order a plurality of keys respectively associated with a plurality of data frames including unencrypted data, wherein each said key is comprised of a plurality of key values; and

a controller for:

(a) initializing a table for encryption with at least one of the plurality of key values associated with a first data frame of the plurality of data frames, wherein said controller commences initialization of the table prior to loading of all of the plurality of

key values associated with the first data frame, and simultaneous with loading of key values, and

(b) executing an algorithm to encrypt the first data frame using the initialized table, wherein said controller encrypts the first data frame simultaneous with storing of key values associated with subsequent data frames of the plurality of data frames.

24. (Original) A system according to claim 23, wherein said controller initializes said table for encryption with at least one of the plurality of key values associated with a second data frame of the plurality of data frames, wherein said initialization of the second data frame occurs simultaneously with storing of key values.